

ROCKY FLATS ENVIRONMENTAL
TECHNOLOGY SITE
This is a REC stamp
GROUNDWATER MONITORING
PROGRAM HEALTH & SAFETY PLAN

Manual No.: RFP/ER-SAF-94-GMP
Section No. Table of Contents, Rev 1
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Effective Date: 05/12/97
Organization: Environmental Restoration Mgmt

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GROUNDWATER MONITORING PROGRAM

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This is a
CONTROLLED DOCUMENT (4)
 ROCKY FLATS PLANT
 ENVIRONMENTAL MANAGEMENT DEPARTMENT
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EG&G HASP FIELD CHANGE FORMField Change Number: 1Effective Date: 5/1/95Requested by: Ken Kloska (HSO)
(Print Name)Ken Kloska 4/7/95
Signature/DatePen and Ink changes to be made to the HASP to alert the reader of this change:

A memorandum will be issued to groundwater monitoring personnel announcing the change.
The affected HASP pages will be replaced and will contain a footnote indicating the date changes
become effective. Redline/strikeout will be used to note additions and deletions in the final text.

Reason for the change to be incorporated into the HASP:

To facilitate night work for groundwater aquifer testing, and to permit groundwater
monitoring personnel to wear standard ANSI-approved safety boots, not necessarily 16"-high
rubber safety boots.

Text of change to be incorporated:

See attached sheets (pages 58, 84, 85, 86, 107, and 108 of 123) from the Golder Groundwater
Monitoring Health and Safety Plan.

APPROVALS:Ken D. C. 4/25/95

H&S Area Administrator/Date

(S) M.D. Schreckengast

H&S Liaison Officer/Date

Greg D. Grosz
Unit Manager/Date**AS NEEDED CONCURRENCE:**(S) W.D. Karlow

Occupational Safety

R. J. O'Neil

Radiological Engineering

See attached commitment sheet H.T. Sangaline
Industrial HygieneN/A

Occupational Health

N/A

Fire Department

N/A

Radiological Operations

Greg D. Grosz 05-07-97
 ENVIRONMENTAL MANAGER

Greg D. Grosz 5/1/97
 Greg D. Grosz RMRS QA

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On occasion, field work will occur after daylight hours. Examples of such work may include, but is not limited to, aquifer testing, pump testing, and slug testing. When after-daylight hours work is to be performed health and safety provisions as outlined in the HASP for daylight work will again be required to ensure workplace monitoring and emergency response provisions of the HASP during after-daylight hours work are being met. Such provisions include:

- ▶ A Health and Safety Specialist (HSS) will be on duty at the work site performing all required monitoring and compliance-oriented tasks as is normally performed during daylight hours;
- ▶ The "buddy" system will be adhered to at all times at the work site;
- ▶ Light plants will be utilized for providing adequate illumination of work activities per 29 CFR 1926.56 - Illumination. Illumination will be provided by a diesel-powered Allmand Brothers Maxlite III light plant capable of 440,000 lumens light intensity or equivalent. The light plant will be self-grounding and will be equipped with a ground fault circuit interrupter. Potentially explosive atmospheres are not expected. Therefore, the light plant will not require explosion prevention features;
- ▶ Radio communications between the site crew and the HSS will be maintained at all times;
- ▶ Telephone communications between the Base Laboratory and the Fire Department (if the Medical Facility is closed) will be maintained at all times;
- ▶ RFETS Industrial Hygiene, Security, the Site Manager and the Shift Superintendent will be notified regarding after-daylight hours work schedules; and,
- ▶ Personnel who are scheduled to work after-daylight hours will sign in and out on the sign-out log book located in the Base Laboratory.

Date Amended: _____ By: _____

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that task. Task-specific PPE requirements are provided in Section 7.5 and summarized in Table 7-3.

7.4.3.1 Level D

Level D PPE is worn while performing tasks with little or no potential for exposure to contaminants. It is the basic work uniform.

Level D PPE consists of:

- ▶ RFP-provided Department of Energy (DOE) cotton coveralls, to be changed daily;
- ▶ ~~Minimum 16" high~~ ANSI (Z41-1991) approved ~~steel-toed over-the-ankle safety boots or shoes~~;
- ▶ Safety glasses with side shields or equivalent;
- ▶ Additional seasonal items, as necessary;
- ▶ Leather gloves (when handling sharp objects); and,
- ▶ Hard hat if an overhead hazard is present.

It should be noted that if a dust hazard is present in an RCA-environment, PPE should be upgraded to Level C if exposure limits established in EMRG 3.1 and 3.2 for radioactive materials are exceeded.

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7.4.3.2 Modified Level D

Modified Level D PPE represents an upgrade of Level D PPE to address possible skin contact with contaminants. Modified Level D PPE is to be worn when conducting tasks with the potential for splash or dust exposure to hazardous constituents, but when no respiratory protection is necessary.

Modified Level D PPE consists of Level D PPE and the following additional items:

- ▶ Disposable chemical-resistant gloves (nitrile or equivalent);
- ▶ ~~Minimum 16" high~~ ANSI (Z41-1991) approved steel-toed over-the-ankle safety ~~steel shank boots or shoes;~~
- ▶ Uncoated chemical-resistant disposable coveralls (Tyvek[™] or equivalent) or coated chemical-resistant disposable coveralls (Saranex[™] or equivalent);
- ▶ Coverall sleeves and legs will be worn over or under the cuffs of gloves and boots depending on the specific hazard presented by a given task. If a splash hazard exists, sleeves and pant legs will be worn outside gloves and boot covers. If a dust hazard is present, the coverall sleeves and pant legs will be worn inside glove cuffs and boot covers. Tape will be used to seal the joints between coveralls, protective gloves, and cuffs; and,
- ▶ Additional seasonal items, as necessary. Any such items will be worn under the disposable coverall.

It should be noted that if a dust hazard is present in an RCA-environment, PPE should be upgraded to Level C if exposure limits established in EMRG 3.1 and 3.2 for radioactive materials are exceeded.

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7.4.3.3 Level C

Level C PPE provides protection from contaminants by using chemical-resistant coveralls and respiratory protection. Level C PPE is to be worn when conducting operations with the potential for exposure to airborne hazardous constituents requiring respiratory protection.

Level C PPE consists of:

- ▶ RFP-supplied DOE cotton coveralls to be changed daily;
- ▶ Uncoated chemical-resistant disposable coveralls (Tyvek™ or equivalent), or coated chemical-resistant disposable coveralls (Saranex™ or equivalent);
- ▶ Coverall sleeves and legs will be worn over or under the cuffs of gloves and boots depending on the specific hazard presented by a given task. If a splash hazard exists, sleeves and pant legs will be worn outside gloves and boot covers. If a dust hazard is present, the coverall sleeves and pant legs will be worn inside glove cuffs and boot covers. Tape will be used to seal the joints between coveralls, protective gloves, and cuffs;
- ▶ Disposable chemical resistant inner gloves (as necessary);
- ▶ Butyl or nitrile outer gloves;
- ▶ ~~Minimum 16" high ANSI (Z41-1991) approved steel-toed over-the-ankle safety~~
~~, steel shank boots or shoes;~~
- ▶ Full-face APR with appropriate high-efficiency particulate air (HEPA) cartridges that provide protection against organic vapors, acid gases, and radioisotopes; and,
- ▶ Additional seasonal items, as necessary. Any such items will be worn under the disposable coverall.

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8.0 EMERGENCY RESPONSE PROCEDURES

8.1 Radio Communications

Field teams will have a method of communicating with both the field office trailer and other field teams. Radio communications are required. Each field crew will be issued a radio for communication with the subcontractor Base Laboratory trailer office. Field crews will be required to utilize assigned open channel radio frequencies, and "check in" with the subcontractor office at least every two hours. The Base Laboratory will utilize the radios to relay messages, such as LS/DW announcements, to field crews. For after-daylight hours work, the HSS will serve as the "check in" contact. The HSS location will alternate between the Base Laboratory and the work site.

8.2 Emergency Telephone

Emergency help is accessed by any RFP phone or field radios. The closest accessible telephone during all work hours will be identified by the HSS before beginning field activities in case radio communication with the communication center is not possible. All RFP guard posts have telephones.

The subcontractor Base Laboratory trailer office will be equipped with telephone communications and shall be attended at all times during operations. Emergency telephone numbers, as listed below and in Table 8-1, are posted near the office telephones and at the office entrances.

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Site Health and Safety Officer	(303) 966-6079
24 Hour Installation	(303) 966-2911
Health/Safety Coordinator	(303) 966-2914
Shift Superintendent	
Fire	(303) 966-2911
Ambulance	(303) 966-2911
Poison Center	(303) 629-1123
Security	(303) 966-2911-3347
Police	(303) 966-2911
Medical Facility General Information	(303) 966-2594
NEAREST MEDICAL SERVICES ARE LOCATED AT:	Building 122

8.3 Medical Facilities

The RFP Medical Facility provides emergency care and ambulance service for on-site incidents Monday through Thursday from 6:30 a.m. to 8:00 p.m., and on Friday from 6:30 a.m. to 4:00 p.m. The Medical Facility is closed Saturday and Sunday. When the Medical Facility is closed, medical emergency coverage is provided by the Fire Department. Telephone numbers for the RFP Medical Facility are provided below:

- ▶ General Information 966-2594
- ▶ Ambulance Service 966-2911
- ▶ Emergency Telephone 966-2911

Date Amended: _____ By: _____